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## Preface

This collection consists of a sample of papers presented at several recent operations research conferences which featured special sessions on Boolean functions. We are grateful to the organizers of EURO XIV and the INFORMS meeting of New Orleans for their encouragement, and in particular to Professor Martin Golumbic, the organizer of a special Boolean Mini-Symposium which took place in Jerusalem in conjunction with EURO XIV.

The collection represents a cross-section of the dynamic and diverse research on Boolean functions and their applications. It includes papers on the mathematical and algorithmic aspects of this field, on applications of Boolean functions to VLSI design and to reliability theory, as well as several papers dealing with the increasingly important theory of partially defined Boolean functions, and their applications to data analysis.

We wish to extend out sincere thanks to the authors of this collection for their valuable contributions, to the referees for their dedicated assistance in realizing this project, and to the Office of Naval Research for their appreciation and support to this research area.

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